

10061961.020102

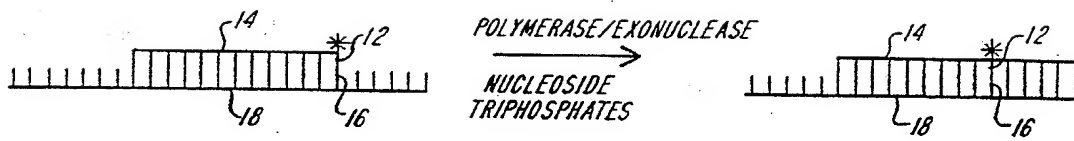


FIGURE 1

10061961.020102

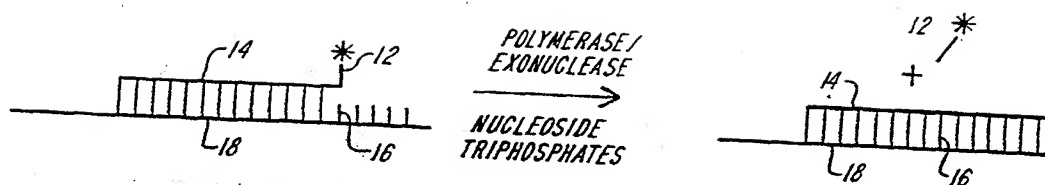


FIGURE 2

207020 1961 020102

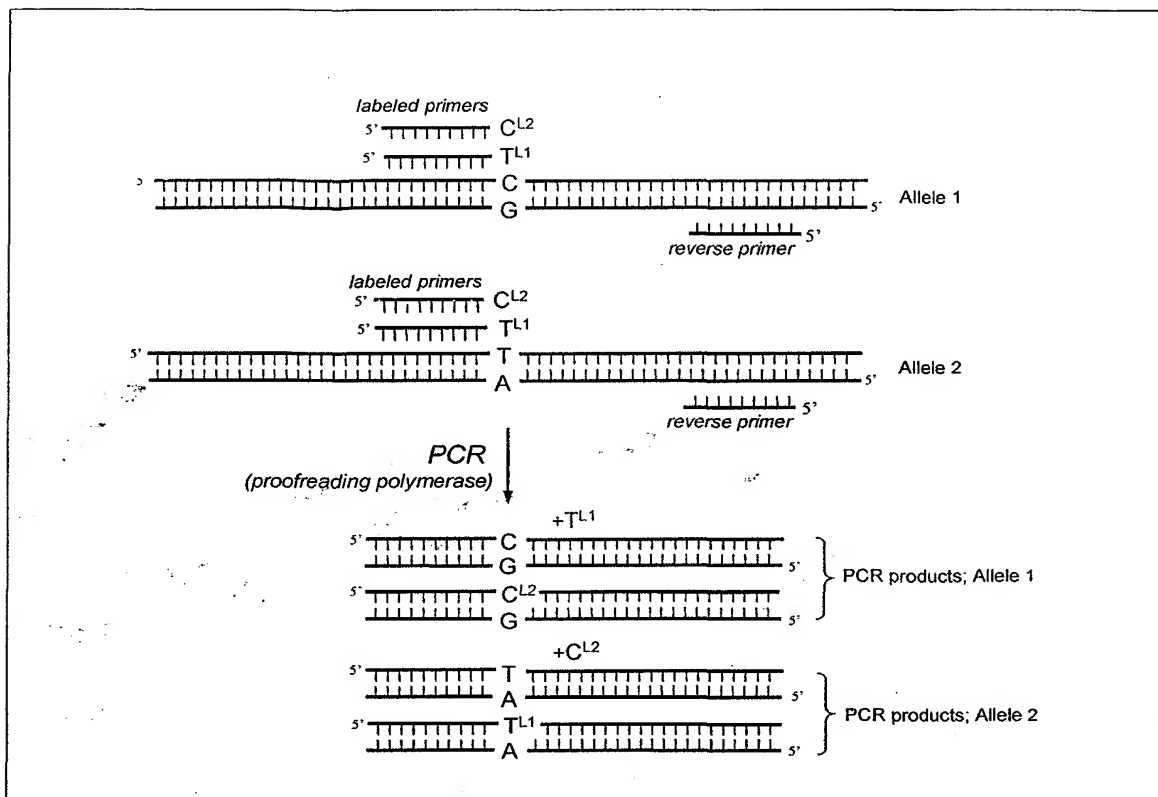


FIGURE 3

40061961.020102

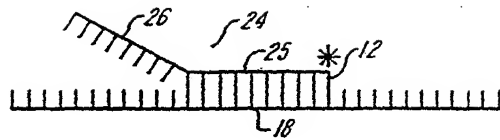


FIGURE 4

10061961.020102

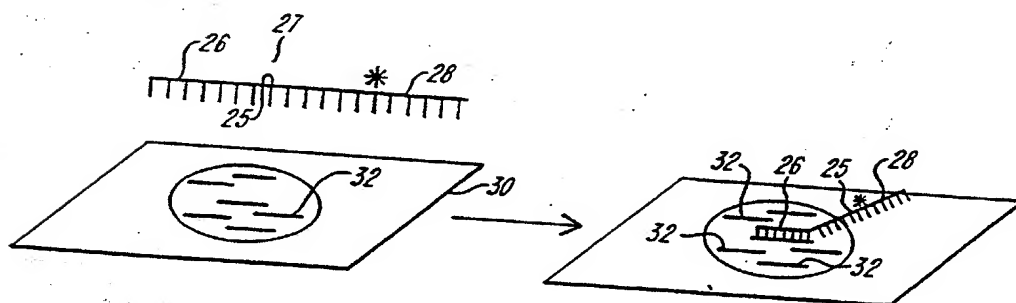


FIGURE 5

10061961-020102

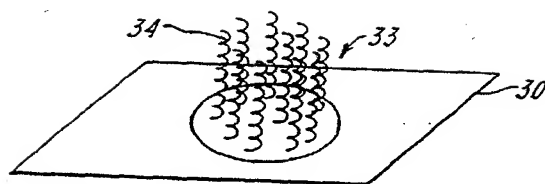


FIGURE 6

10061961.020102

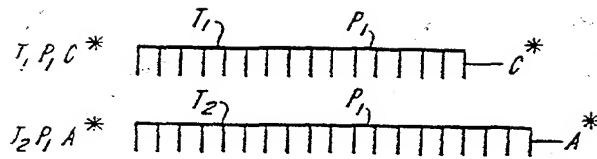


FIGURE 7

20061961.020102

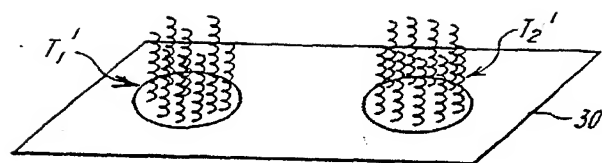


FIGURE 8

40061961.020102

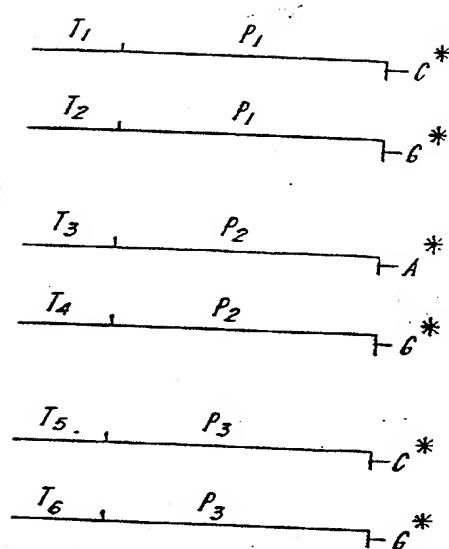


FIGURE 9

Single Nucleotide Replacement Assay

10061961.020102

G

T

C



PCR rxn using
Proofreading Pol
& labeled ddNTP

G

C

FIGURE 10

Embodiment 1

FET-quencher™ T96T9003

Fluorescent dye

tagged primer

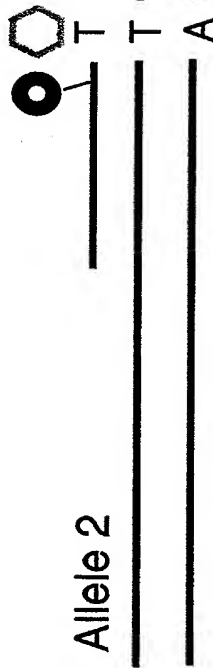
Allele 1



MUTANT

reverse primer

Allele 2



W.T.

PCR (Pfu, Pwo, or other proofreading polymerase)

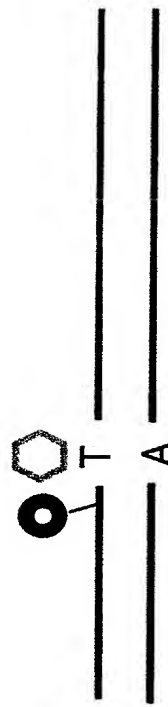
Fluorescent dye emission when dye-tagged nucleotide released

Product 1



MUTANT

Product 2



W.T.

FIGURE 11

Embodiment 2

20102019613003

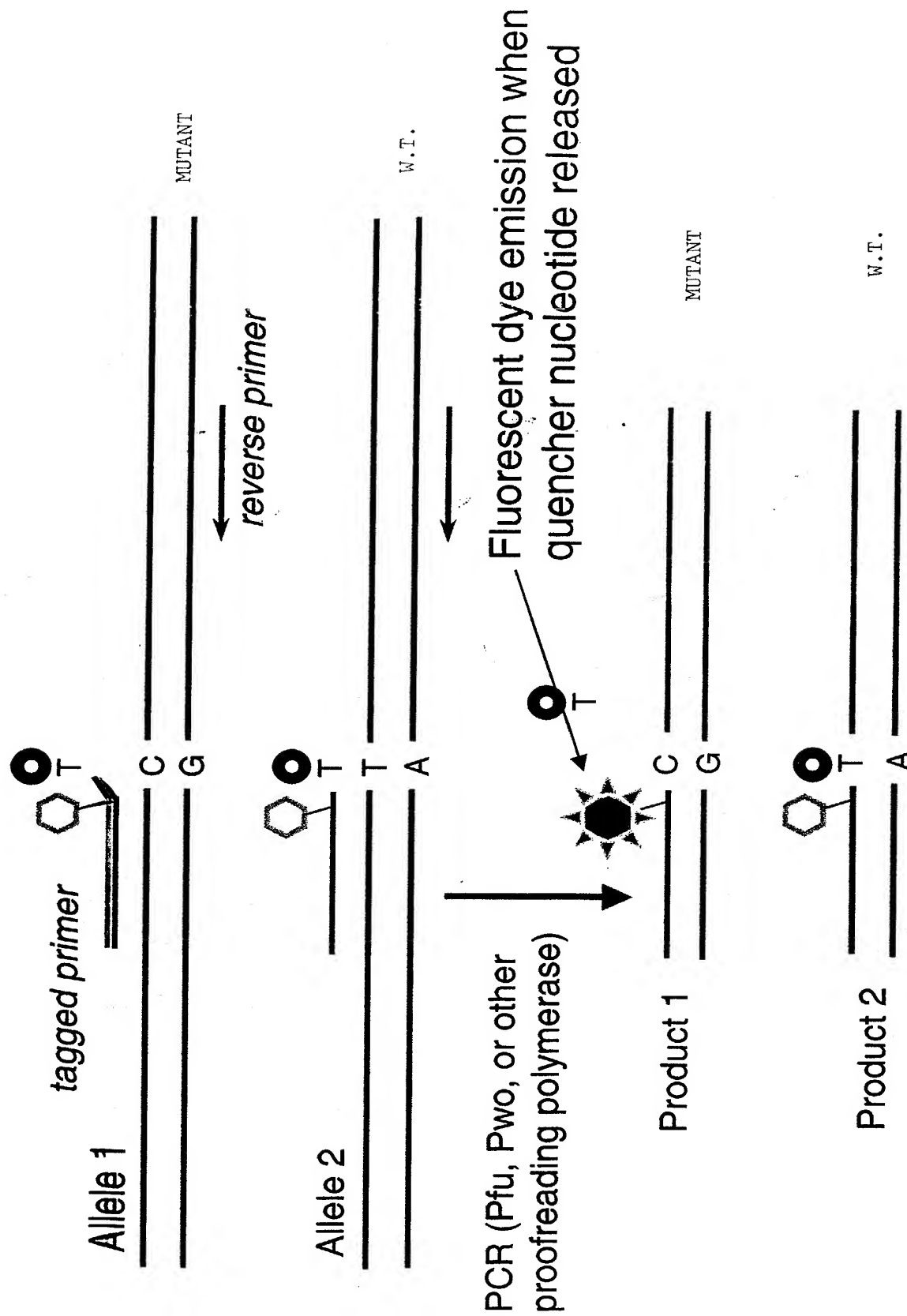


FIGURE 12

207020-19619001

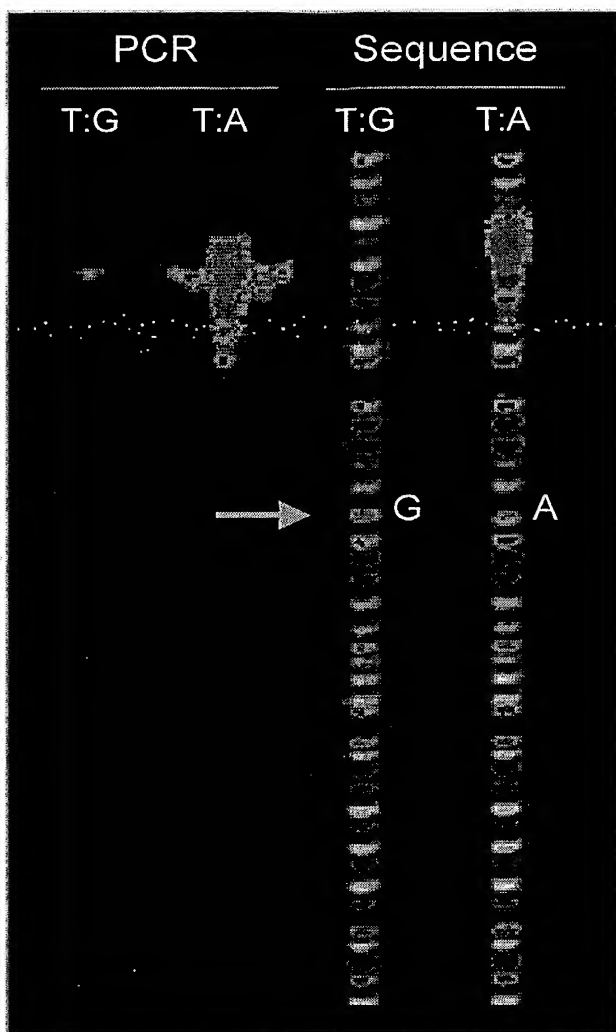


FIGURE 13

201020 19549001

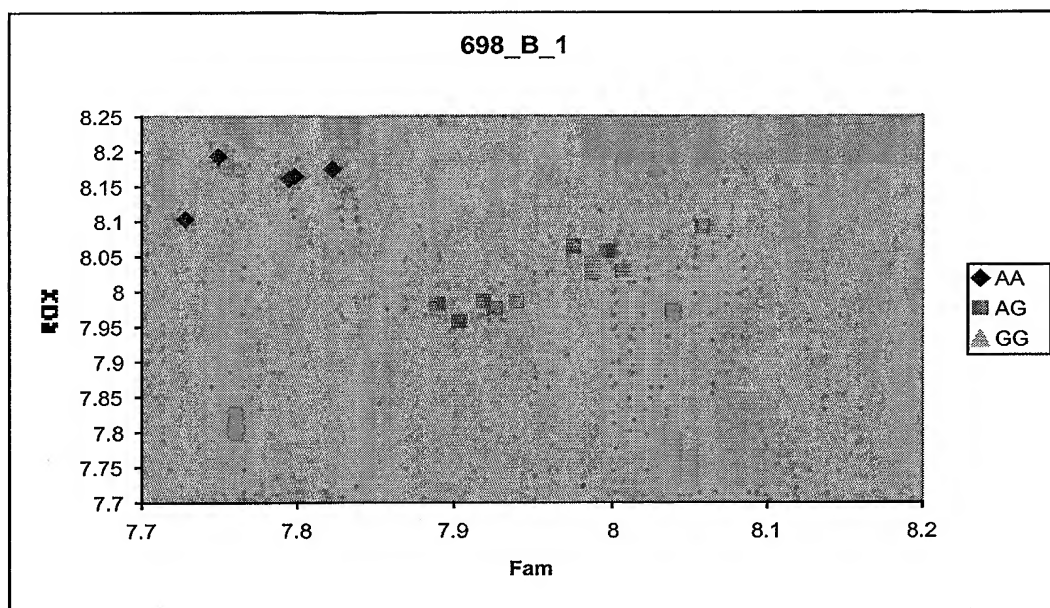


FIGURE 14

201020-19619001

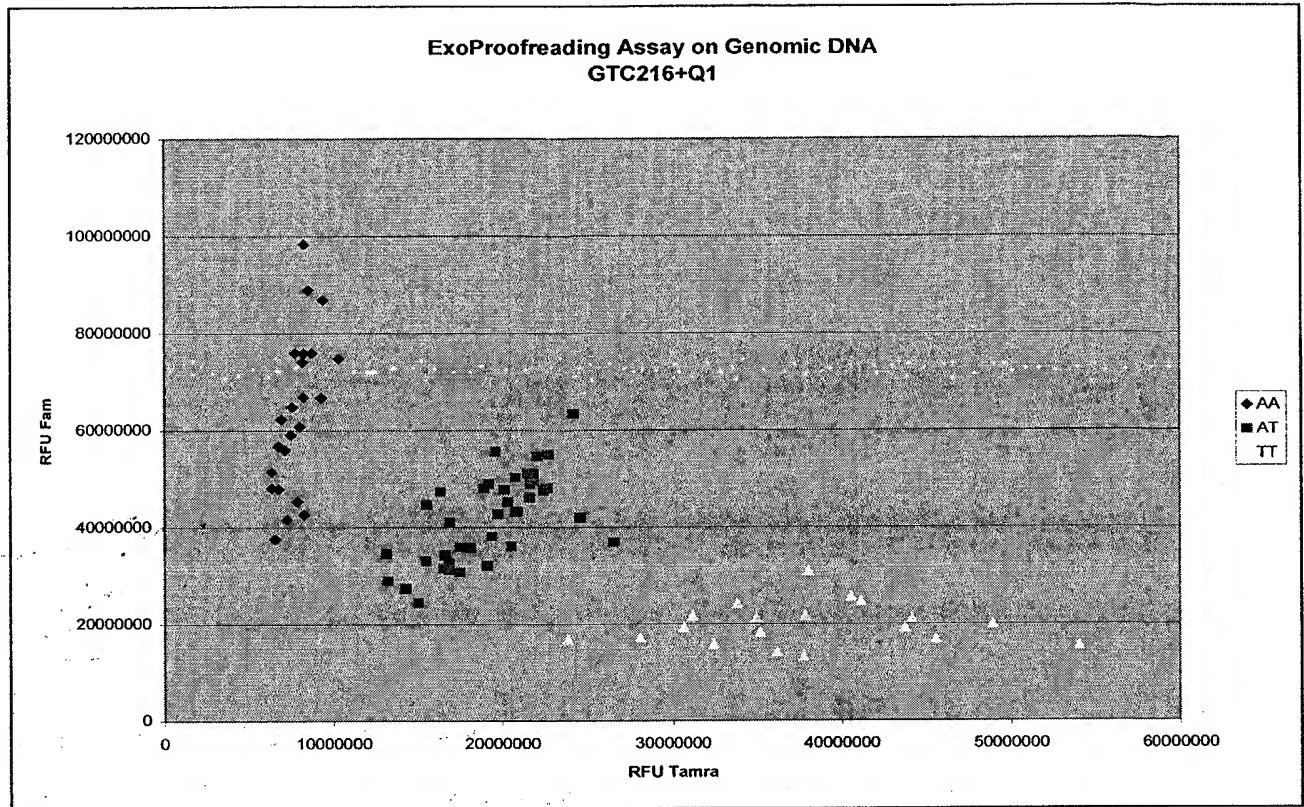


FIGURE 15

201020 T96T900T











Starting Sample	Dialysate 15 min	Dialysate 20 min	Sample 45 min	Sample 60 min	
					NAT2-T ³⁴¹ (labeled PCR product)
					NAT2-C ³⁴¹ (labeled excised nucleotide)

FIGURE 16

Exo-Proofreading Assay Using Fluorescence Polarization Detection Method
GTC216_Q_+1

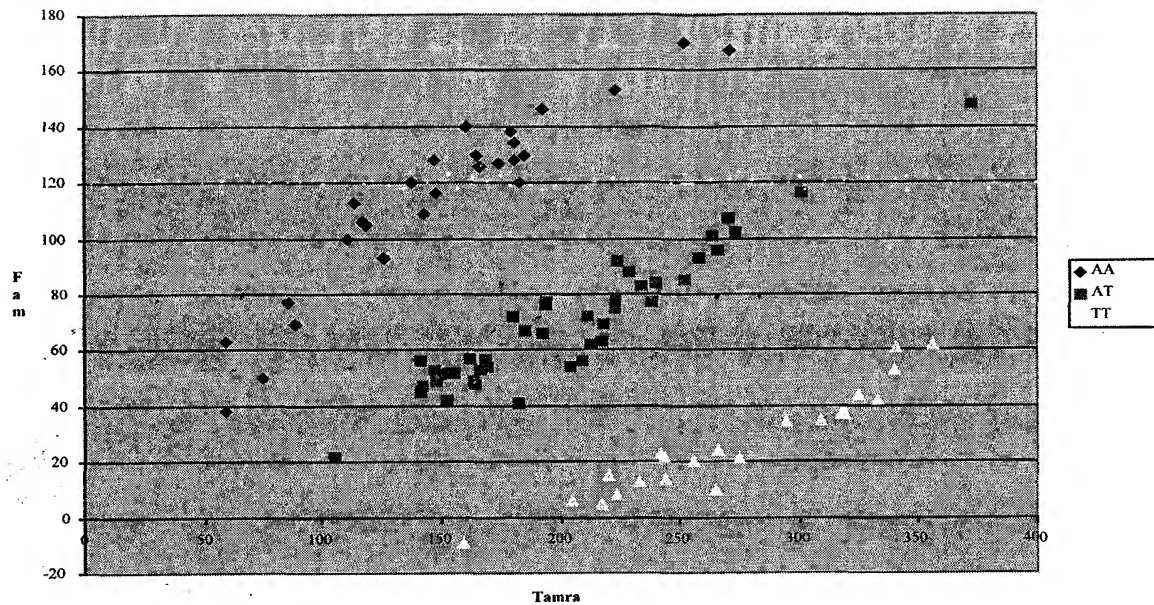


FIGURE 17

20061961.020102

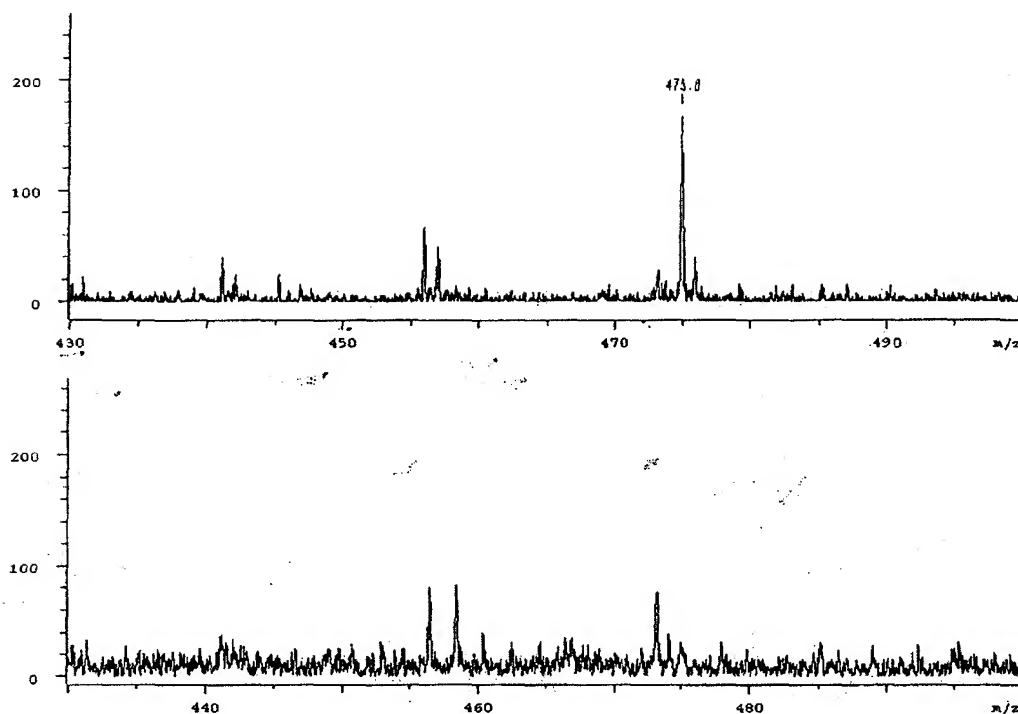


FIGURE 18

201000-195T9001

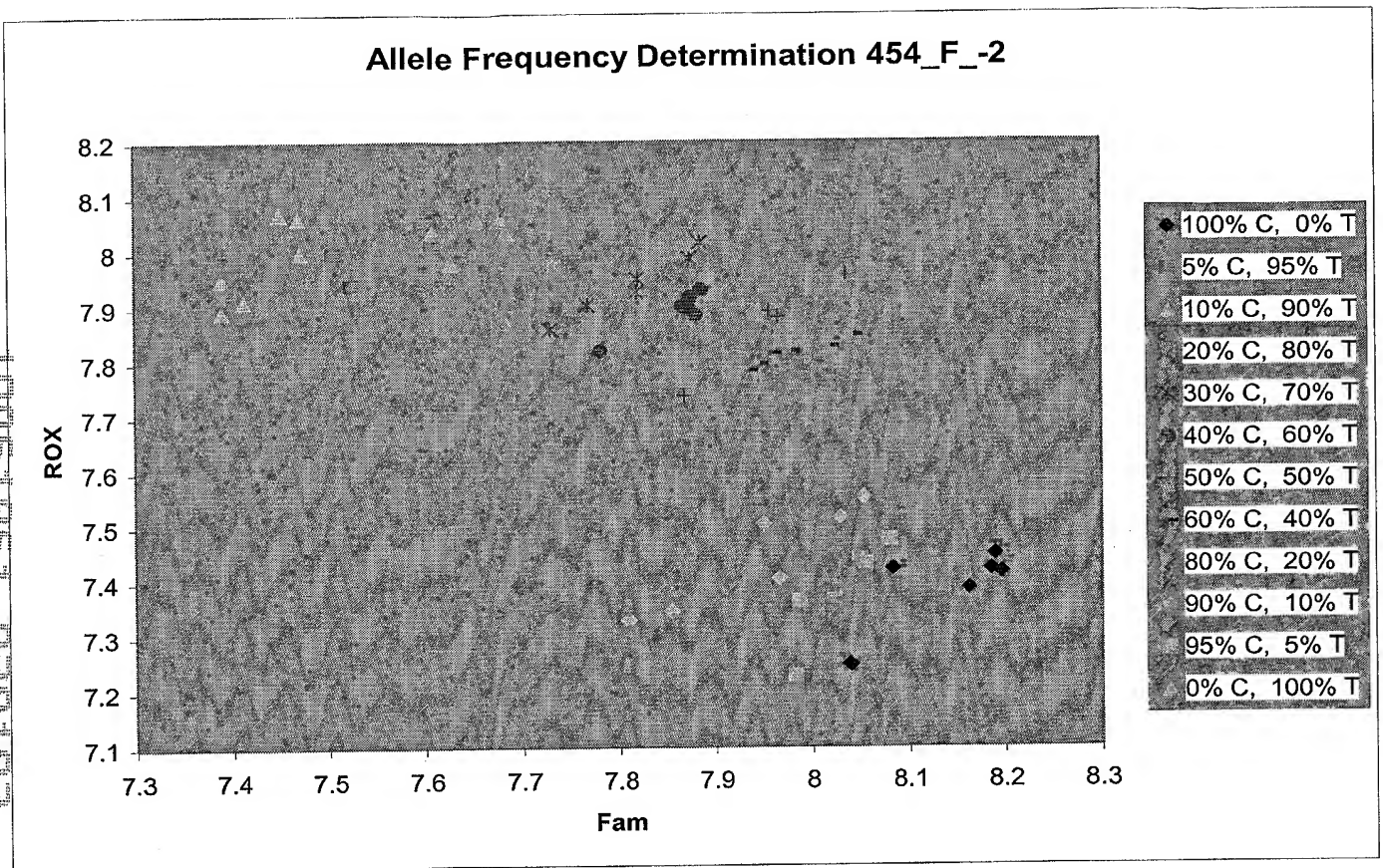


FIGURE 19